PENDING CLAIMS

The following is a list of currently pending claims. Claims 9-11, 15, and 17-18 are cancelled. Please amend claims 1, 12-14, 16, and 19 as shown below.

- 1. (Currently amended) A method for making a semiconductor device, comprising: providing a metal structure comprising tungsten on a substrate; providing an insulating layer over the metal structure; providing a capping structure over the insulating layer; and annealing the resulting structure, wherein a portion of the metal structure has a width greater than about 1 micron.
- 2. (Original) The method of claim 1, wherein the substrate comprises a dielectric upper surface.
- 3. (Original) The method of claim 1, the capping structure comprising a substantially continuous layer.
- 4. (Original) The method of claim 1, the capping structure comprising a dielectric material.
- 5. (Original) The method of claim 4, wherein the dielectric material of the capping structure is PSG.
- 6. (Original) The method of claim 1, wherein the capping structure and annealing decreases peeling of the metal structure when heated.
- 7. (Original) The method of claim 1, including planarizing the insulating layer before providing the capping structure.
- 8. (Original) The method of claim 1, including annealing for about 30 to about 60 minutes at a temperature ranging from about 675 to about 700 degrees Celsius.

- 9.-11. (Cancelled)
- 12. (Currently amended) A method for making a semiconductor device, comprising:

 providing a metal structure on a substrate, the metal structure comprising tungsten and a

 portion of the metal structure having a dimension width greater than about 1 micron; and

 providing an insulating layer over the metal structure;

 providing a capping structure over the insulating layer; and

 annealing the resulting structure;

wherein the capping structure and annealing decreases peeling of the metal structure when heated.

13. (Currently amended) A method for making a semiconductor device, comprising:

providing a metal structure on a substrate, the metal structure comprising tungsten and a

portion of the metal structure having a dimension width greater than about 1 micron; and

providing an insulating layer over the metal structure;

providing a capping structure over the insulating layer; and

annealing the resulting structure;

wherein the annealing decreases peeling of the metal structure when heated.

14. (Currently amended) A method for preventing peeling of a metal structure in a semiconductor device, comprising:

providing a metal structure <u>comprising tungsten</u> on a substrate;

providing an insulating layer over the metal structure;

providing a capping structure over the insulating layer; and

annealing the resulting structure, <u>wherein a portion of the metal structure has a width</u>

greater than about 1 micron.

- 15. (Cancelled)
- 16. (Currently amended) A method for preventing peeling of a metal structure in a semiconductor device, comprising:

providing a metal structure on a substrate, the metal structure comprising tungsten and a portion of the metal structure having a dimension width greater than about 1 micron; and providing an insulating layer over the metal structure; providing a capping structure over the insulating layer; and annealing the resulting structure;

wherein the annealing decreases peeling of the metal structure when heated.

- 17.-18. (Cancelled)
- 19. (Currently amended) A semiconductor device made by the method comprising:

 providing a metal structure on a substrate, the metal structure comprising tungsten and a

 portion of the metal structure having a dimension width greater than about 1 micron; and

 providing an insulating layer over the metal structure;

 providing a capping structure over the insulating layer; and

 annealing the resulting structure;

wherein the capping structure and annealing decreases peeling of the metal structure when heated.

- 20. (Withdrawn) A semiconductor device, comprising:
- a metal structure on a substrate; a portion of the metal structure having a dimension greater than about 1 micron;
 - an insulating layer over the metal structure; and a capping structure over the insulating layer.

- 21. (Withdrawn) The device of claim 20, wherein the substrate comprises a dielectric upper surface.
- 22. (Withdrawn) The device of claim 20, wherein the capping structure comprises a substantially continuous layer.
- 23. (Withdrawn) The device of claim 20, the capping structure comprising a dielectric material.
- 24. (Withdrawn) The device of claim 23, wherein the dielectric material of the capping structure is PSG.
 - 25. (Withdrawn) The device of claim 24, wherein the metal structure comprises tungsten.
- 26. (Withdrawn) The device of claim 20, wherein a portion of the metal structure has a dimension smaller than about 0.25 micron.
 - 27. (Withdrawn) The device of claim 20, wherein the capping structure has been annealed.
 - 28. (Withdrawn) A semiconductor device, comprising
- a metal structure on a substrate; a portion of the metal structure having a dimension greater than about 1 micron and another portion having a dimension less than about 0.25 micron;
 - an insulating layer over the metal structure; and
 - a substantially-continuous capping structure over the insulating layer.
- 29. (Withdrawn) The device of claim 28, wherein the capping structure has been annealed.
- 30. (Withdrawn) A memory device containing an integrated circuit comprising:

 a metal structure on a substrate; a portion of the metal structure having a dimension
 greater than about 1 micron;

an insulating layer over the metal structure; and a capping structure over the insulating layer.

- 31. (Withdrawn) The device of claim 30, wherein the capping structure has been annealed.
- 32. (Withdrawn) A memory device containing an integrated circuit comprising:

 a metal structure on a substrate; a portion of the metal structure having a dimension

 greater than about 1 micron and another portion having a dimension less than about 0.25 micron;

 an insulating layer over the metal structure; and

 a substantially-continuous capping structure over the insulating layer.
- 33. (Withdrawn) The device of claim 32, wherein the capping structure has been annealed.
- 34. (Withdrawn) An electronic device containing an integrated circuit comprising:

 a metal structure on a substrate; a portion of the metal structure having a dimension
 greater than about 1 micron;

an insulating layer over the metal structure; and a capping structure over the insulating layer.

- 35. (Withdrawn) The device of claim 34, wherein the capping structure has been annealed.
- 36. (Withdrawn) An electronic device containing an integrated circuit comprising:

 a metal structure on a substrate; a portion of the metal structure having a dimension

 greater than about 1 micron and another portion having a dimension less than about 0.25 micron;

 an insulating layer over the metal structure; and

 a substantially-continuous capping structure over the insulating layer.

37. (Withdrawn) The device of claim 36, wherein the capping structure has been annealed.

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AMENDMENTS TO THE CLAIMS: DISCUSSION

Claim 1 has been amended to recite a method for making a semiconductor device, comprising: providing a metal structure comprising tungsten on a substrate; providing an insulating layer over the metal structure; providing a capping structure over the insulating layer; and annealing the resulting structure, wherein a portion of the metal structure has a width greater than about 1 micron.

Claim 1 has been amended to include the limitations of original claims 9 and 10, which have been cancelled. The word "dimension" in original claim 10 was changed to "width".

Support for this amendment is found in paragraph [0005].

Claims 12, 13, 16, and 19 also all previously included the limitation that a metal structure has a "dimension greater than about 1 micron." Each of these claims has been amended to recite a "width" rather than a "dimension". Support for this amendment is similarly found in paragraph [0005].

Claim 14 has been amended to include the limitations of claims 9 and 15. Claim 15 has been cancelled.